



Customer information packet

EWCM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TCZ, 3756M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TCZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	25.200 A @ 230.0 V 26.600 A @ 208.0 V 12.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	K
Type	AC
Mech. spec.	37N046
Base	
Status	PRD/A
Elec. spec.	37WGR366
Layout	37LYN046
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	05-19-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.45 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441L									
CAT.NO.	EWCM3714T								
SPEC.	37N046R366G1								
HP	10								
VOLTS	230/460								
AMP	25.2/12.6								
RPM	1770								
FRAME	215TCZ		HZ	60			PH	3	
SER.F.	1.15		CODE	L	DES	A	CL	F	
NEMA-NOM-EFF	91.7		PF	80					
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6206					
ENCL	TEFC		SN						
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data

Record # 50991

Typical performance - not guaranteed values

Winding: 37WGR366-R002			Type: 3756M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.4 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		25.2/12.6	Breakdown Torque		152 LB-FT		
R.P.M.		1770	Pull-up Torque		55.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		78 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		116 A
Service Factor (S.F.)		1.15	No-load Current		6.25 A		
NEMA Nom. Eff.		91.7	Power Factor	80	Line-line Res. @ 25°C		0.793 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		61°C
S.F. Amps					Temp. Rise @ S.F. Load		75°C
					Locked-rotor Power Factor		35.1
					Rotor inertia		1.38 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	74	80	84	87	82
Efficiency	87.7	92.4	92.7	92.1	91.1	89.5	91.5
Speed	1795	1788	1782	1775	1767	1758	1770
Line amperes	6.81	8.37	10.3	12.6	15.2	18	14.2

ABB Motors and Mechanical Inc.

WINDING # 37WGR366

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3756M

TORQUES (LB-FT): PO=152 PU=55.9 LR=78 LRA=116





